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Application Number	10/811699
Filing Date	March 29, 2004
First Named Inventor	Bottomley
Art Unit	2661 2618
Examiner Name	Nhan Le
Attorney Docket Number	4015-5177/P18409-US1

Sheet	1	of	2	Attorney Docket Number	4015-5177/P18409-US1
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Examiner Signature	N. Harn, Le	Date Considered	11/30/06
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/P.T.O. <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <p>(Use as many sheets as necessary)</p>				Complete if Known	
				Application Number	10/811699
				Filing Date	March 29, 2004
				First Named Inventor	Bottomley
				Art Unit	2681 <i>2618</i>
				Examiner Name	<i>Nhan Le</i>
Sheet	2	of	2	Attorney Docket Number	4015-5177/P18409-US1

[illegible]

Examiner Signature		Date Considered	11/30/88
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Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/811699
Filing Date	March 29, 2004
First Named Inventor	Bottomley
Art Unit	2681 <i>2618</i>
Examiner Name	<i>Nhan Le</i>
Attorney Docket Number	4015-5177/P18409-US1

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>N. Brown</i>	Date Considered	11/30/08
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PTO/SB/08B (08-03)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/811699
Filing Date	March 29, 2004
First Named Inventor	Bottomley
Art Unit	2681 <i>2612</i>
Examiner Name	<i>Nhan Le</i>
Attorney Docket Number	4015-5177/IP18409-US1

Sheet	2	of	2
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NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature	<i>N. K. ...</i>	Date Considered	11/20/06
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Sheet 1 of 1

FORM PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION PURSUANT TO
37 CFR §1.97 & 1.98**

Docket Number:	Serial Number:
4015-5177	10/811,699
Applicant:	
Bottomley, et al.	
Filing Date:	Group:
March 29, 2004	218

U. S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subcl	Filing Date	
						If Approp.	

FOREIGN PATENT DOCUMENTS

Patent No.	Date	Name	Class	Subcl	Translation	
					Yes	No

OTHER DOCUMENTS (including author, title, date, pages, etc.)

N. Le	Serial No. 10/869,456; Filed June 16, 2004; Bottomley, et al.; SIR Estimation in a Wireless Receiver; 47 pgs.

EXAMINER

N. Le

DATE CONSIDERED

11/20/06

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03/29/04

Sheet 1 of 2

FORM PTO-1449

Docket Number:

4015-5177

Serial Number:

10/01/699

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION PURSUANT TO
37 CFR §1.97 & 1.98**

Applicant:

Bottomley et al.

Filing Date:

March 29, 2004

Group:

2618

U. S. PATENT DOCUMENTS

Examiner					Filing Date		
Initial		Patent No.	Date	Name	Class	Subcl	If Approp.
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	B	6,363,104	2002	Bottomley			
	C	6,026,115	2000	Higashi et al.			
	D	5,983,105	1999	Stahle			
	E	5,572,552	1996	Dent et al.			
	F	6,470,044	2002	Kowalski			

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		Patent No.	Date	Name	Class	Subcl
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	B	EP 1 289 162	2003	Papasakellarios		
	C	WO 01/71927	2001	Liberti et al.		
	D	WO 99/65153	1999	Kowalewski		

OTHER DOCUMENTS (including author, title, date, pages, etc.)

N. L.	A	U.S. Patent Application Publication, Pub. No.: US 2002/0122470 A1; Sept. 5, 2002.
	B	U.S. Patent Application Publication, Pub. No.: US 2001/0028677 A1; Oct. 11, 2001.
	C	R. McDonough and A. Whalen, "Detection of Signals in Noise, Second Edition, Academic Press.
	D	G. Bottomley, T. Ottosson, and Y. Wang, "A Generalized RAKE Receiver for Interference Suppression," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 18, No. 8, August 2000, pp. 1536-1545.
	E	H. Liu and M. Zoltowski, "Blind Equalization in Antenna Array CDMA Systems," <i>IEEE Transactions on Signal Processing</i> , Vol. 45, No. 1, January 1997, pp. 161-172.
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N.L.	H	C.G. Khatri and C. Radhakrishna, "Effects of Estimated Noise Covariance Matrix in Optimal Signal Detection," <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , Vol. ASSP-35, No. 5, May 1987, pp. 671-679.
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	J	G. Kutz and A. Chass, "On the Performance of a Practical Downlink CDMA Generalized RAKE Receiver," IEEE VTC 2002 Fall, Vancouver Sept. 24-28.
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	L	Y. Wang and G. Bottomley, "Generalized RAKE Reception for Cancelling Interference from Multiple Base Stations," IEEE VTC 2000.
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	N	Wang, Y.-P. Eric and Bottomley, Gregory E. Bottomley, "CDMA Downlink System Capacity Enhancement through Generalized RAKE Reception," in <i>Proc. IEEE Veh. Technol. Conf.</i> , Atlantic City, NJ, Oct. 7-11, 2001.
	O	Chowdhury, S., and Zoltowski, M.D., "Combined MMSE equality and multiuser detection for high-speed CDMA forward link with sparse multipath channels," <i>Conference Record of Thirty-Fifth Asilomar Conference on Signals, Systems and Computers</i> , 4-7 November 2001, Vol. 1, (Abstract).
✓	P	Hai, Wang, Ramesh, R., Bottomley, Gregory E., and Wang, Y.-P Eric, "Approaches for fast, adaptive, generalized rake reception," <i>Research Disclosure Journal</i> , 475041, Nov. 2003, Kenneth Mason Publ. Ltd.

EXAMINER

N. L. Le

DATE CONSIDERED

11/30/03

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